

## Certification Summary Information Report

|                                   |  |                                  |            |
|-----------------------------------|--|----------------------------------|------------|
| <b>Manufacturer</b>               | Mahindra North American Technical Center, Inc. | <b>Manufacturer Code</b>         | MNC        |
| <b>Engine Family</b>              | KMNCX2.52DM1                                   | <b>Model Year</b>                | 2019       |
| <b>Certificate Number</b>         | KMNCX2.52DM1-001-R01                           | <b>Certificate Issue Date</b>    | 08/17/2018 |
| <b>Certificate Effective Date</b> | 08/17/2018                                     | <b>Certificate Revision Date</b> | 04/12/2019 |

## General Information

|   |  |   |   |
|---|--|---|---|
| <b>Vehicle Category</b>   | ATVB-Meeting EPA ATV Definition                  | <b>Sales Areas of All Vehicles/Engines in This Engine Family</b>                | Some 50, Some 49                                |
| <b>Small Volume Manufacturer Recognition</b>                                      | Regular Volume                                   | <b>Are you Certifying This Vehicle/Engine By Design</b>                         | No  |
| <b>Manufacturer Code assigned by CARB</b>   | MNA  | <b>Parent Company Name</b>  | Mahindra Automotive North America, Inc.         |
| <b>EPA Certification Fee Paid Date</b>  | 07/26/2018                                       | <b>Application Type</b>   | Correction                                      |
| <b>Permeation Family Name</b>   | KMNCPMETALAO                                     | <b>Does this Perm Family participate in Average Banking and Trading?</b>        | No  |
| <b>Does this EF participate in an EPA and/or CARB emission averaging program?</b> | No   | <b>Does this EF participate in EPA and/or CARB emission averaging program?</b>  |   |
| <b>Testing procedure applied for exhaust emissions values</b>                     | 40CFR86, Subpart E: Chassis test                 | <b>If Other, Please provide EPA/CARB approval ID for this testing procedure</b> | --  |
| <b>Are you the original manufacturer of the certifying vehicle/engine?</b>        | Yes  |   |   |
| <b>Vehicle Original Equipment Manufacturer</b>                                    | <b>Country where the Vehicles were assembled</b> | <b>Engine Original Equipment Manufacturer</b>                                   | <b>Country where the Engines were assembled</b> |
| Mahindra North American Technical Center, Inc.                                    | USA  | Mahindra & Mahindra, Ltd.   | India   |
| <b>Manufacturer Comments</b>  |  |   |   |

## EPA Emission Standards and Certification Levels

| EPA Exhaust Emissions units:G/KM |    |     |        |     |
|----------------------------------|----|-----|--------|-----|
| Air Pollutant                    | HC | NOx | HC+NOx | CO  |
| Certification Level              |    | 0.4 | 0.5    | 0.1 |
| Family Emission Limit            |    |     |        |     |
| Emission Standards               |    |     | 1.5    | 35  |
| Applicant Notes                  |    |     |        |     |

## CARB Emission Standards and Certification Levels

|  |  |
|--|--|
| CARB HMC Early Compliance Multiplier: -- | Evaporative Emissions (HMC CARB-only)<br>Diurnal + Hot Soak Evaporative Emissions<br>(Unit: g/test): |
|--|--|

## Certification Summary Information Report

|  |                                    |                            |                            |
|--|------------------------------------|----------------------------|----------------------------|
| <b>Engine Family</b>   | KMNCX2.52DM1                       | <b>Model Year</b>          | 2019                       |
| <b>Engine Family Description</b>                               |                                    |                            |                            |
| <b>Engine Family Useful Life</b>                               | EPA Required Useful Life           |                            |                            |
| <b>EF Fuel System Type</b>                                     | Single Fuel System                 |                            |                            |
|  | <b>Primary Operating Fuel Type</b> |                            | <b>Fuel Type, If Other</b> |
|  | Diesel                             |                            | --                         |
| <b>Combustion Cycle</b>  | 4-Stroke                           |                            |                            |
| <b>Combustion Cycle, If Other</b>                              |                                    |                            |                            |
| <b>Cylinder Arrangement</b>                                    | In Line                            |                            |                            |
| <b>Cylinder Arrangement, If Other</b>                          |                                    |                            |                            |
| <b>Number of Cylinders</b>                                     | 4                                  | <b>Valves per Cylinder</b> | 2                          |
| <b>Engine Type</b>   | Other                              |                            |                            |
| <b>Engine Type, If Other</b>                                   |                                    |                            |                            |
| Turbo-Diesel   |                                    |                            |                            |
| <b>Engine Cooling Media</b>                                    | Liquid Cooled                      |                            |                            |
| <b>Engine Cooling Media, If Other</b>                          |                                    |                            |                            |
| <b>Does this engine family contain multiple displacements?</b> | No                                 | <b>New Technology</b>      | No                         |
| <b>Technology explanation</b>                                  | --                                 |                            |                            |
| <b>Applicant Notes</b>   |                                    |                            |                            |
| --   |                                    |                            |                            |

## Certification Summary Information Report

|   |                         |   |                     |
|---|-------------------------|---|---------------------|
| <b>Engine Family</b>  | KMNCX2.52DM1            | <b>Model Year</b>   | 2019                |
| <b>Exhaust Emission Control Information</b>   |                         |   |                     |
| <b>ECS Reference Number</b>   | 1                       | <b>Is this engine family equipped with a catalytic converter?</b> | Yes                 |
| <b>Total number of catalytic converters</b>   | 1                       | <b>Applicable catalytic converter configuration</b>               | Single              |
| <b>Catalytic converter type used</b>  | oxidizing catalyst only |   |                     |
| <b>Catalyst Manufacturer Name</b>   |                         | <b>Catalyst Manufacturer Location</b>                             |                     |
| <b>Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System?</b> | Yes                     | <b>Description of the EGR technology used</b>                     | Cooled variable EGR |
| <b>Applicable engine fuel system type</b>   | Other                   |   |                     |
| <b>If Other, Enter a description of the fuel system</b>   |                         |   |                     |
| Common rail system  |                         |   |                     |
| <b>Method of air aspiration for the engine</b>  | Turbocharged            |   |                     |
| <b>Method of engine aspiration, If Other</b>  |                         |   |                     |
| <b>Charge Air Cooler Type</b>   | No Air Cooler           |   |                     |
| <b>Electronic engine control module type</b>  | Engine Control Module   |   |                     |
| <b>Applicable method of air injection methodology</b>   | Not Applicable          |   |                     |
| <b>Air injection methodology, If Other</b>  |                         |   |                     |
| <b>Air/fuel feedback sensor used on this engine family</b>  | No                      |   |                     |
| <b>Sensor Type</b>  |                         |   |                     |
| <b>Sensor Type, If Other</b>  |                         |   |                     |
| <b>Configuration of the feedback sensors arrangement</b>  |                         |   |                     |
| <b>Applicant Notes</b>  |                         |   |                     |
| --  |                         |   |                     |

## Certification Summary Information Report

|   |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
|---|---------------------------|----------------|--|------------------|--------------------------------------|------------------------------|-------------------------|-----------|------------|-----------------|-----------|------------|
| <b>Engine Family</b>  | KMNCX2.52DM1              |                | <b>Model Year</b>                              | 2019             |                                      |                              |                         |           |            |                 |           |            |
| <b>Exhaust Emission Data Vehicle/Engine (EDV/E) and Emissions Test Data</b> |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
| <b>Test Vehicle Number</b>  | 1                         |                | <b>EDV ID</b>                                  | M-01             |                                      |                              |                         |           |            |                 |           |            |
| <b>EDV/Test Data Type</b>   | New                       |                | <b>Original EF Name That Contains EDV Data</b> | --               |                                      |                              |                         |           |            |                 |           |            |
| <b>DDV Engine Family if Different from EDV Engine Family</b>                | --                        |                | <b>Configuration ID</b>                        | LCCR DI BSIV     |                                      |                              |                         |           |            |                 |           |            |
| <b>Model Name</b>   | M540                      |                | <b>Tire Pressure (in PSI)</b>                  | 28               |                                      |                              |                         |           |            |                 |           |            |
| <b>Road Load Force (N)</b>  | 314                       |                | <b>Rated Power</b>                             | 63               |                                      |                              |                         |           |            |                 |           |            |
| <b>Rated Power Unit</b>   | bhp                       |                | <b>RPM at Rated Power</b>                      | 3200             |                                      |                              |                         |           |            |                 |           |            |
| <b>Cylinder (Block) Arrangement</b>   | In Line                   |                | <b>Number of Cylinders</b>                     | 4                |                                      |                              |                         |           |            |                 |           |            |
| <b>ECS Number (From Tab 4)</b>  | 1                         |                | <b>Displacement (cc)</b>                       | 2523             |                                      |                              |                         |           |            |                 |           |            |
| <b>Transmission</b>   | Manual                    |                | <b>Number of Gears</b>                         | 5                |                                      |                              |                         |           |            |                 |           |            |
| <b>N/V Ratio</b>  | 34.8                      |                | <b>Equivalent Inertia Mass (in kg)</b>         | 1540             |                                      |                              |                         |           |            |                 |           |            |
| <b>Curb Mass (in kg)</b>  | 1378                      |                | <b>Loaded Vehicle Mass (kg):</b>               | 1458             |                                      |                              |                         |           |            |                 |           |            |
| <b>Manufacturer Comments</b>  |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
|   |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
| <b>Exhaust Test</b>   |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
| <b>Test Date</b>  | <b>MFR Test ID Number</b> | <b>Test By</b> | <b>Test For</b>                                | <b>Test Fuel</b> | <b>Tested at Cumulative Km or Hr</b> | <b>Test Measurement Unit</b> | <b>Test Result Unit</b> | <b>HC</b> | <b>NOx</b> | <b>HC + NOx</b> | <b>CO</b> | <b>CO2</b> |
|   |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
| <b>EPA Certification Levels and Deterioration Factors</b>                   |                           |                |  |                  |                                      |                              |                         |           |            |                 |           |            |
| <b>End of Useful Life Emissions Value</b>                                   |                           | <b>HC</b>      | <b>NOx</b>                                     |                  | <b>HC + NOx</b>                      |                              | <b>CO</b>               |           |            |                 |           |            |
| Calculated by applying DF   |                           | 0.065          | 0.419  |                  | 0.484                                |                              | 0.046                   |           |            |                 |           |            |
| <b>EPA Deterioration Factor Type</b>  |                           | <b>HC</b>      | <b>NOx</b>                                     |                  | <b>HC + NOx</b>                      |                              | <b>CO</b>               |           |            |                 |           |            |
| Multiplicative  |                           | 1.000          | 1.037  |                  | 1.000                                |                              | 1.000                   |           |            |                 |           |            |

## Certification Summary Information Report

| Engine Family                                    |           | KMNCX2.52DM1        |                                     | Model Year   |                 | 2019                       |                      |
|--|-----------|---------------------|-------------------------------------|--|-----------------|----------------------------|----------------------|
| Federal Mandatory Greenhouse Gas (GHG) Reporting |           |                     |                                     |  |                 |                            |                      |
| GHG Name   | GHG Value | Unit of GHG Value   | Measured/Estimated at Distance (km) | By Method  | Test Vehicle ID | Reference/Citations        | Test/Estimation Date |
| CH4  | 0.005     | Grams Per Kilometer | 335                                 | Tested result from the EDV(s) of the Engine Family | M-01            | Test #2017061601           | 06/16/2017           |
| N2O  | 0.036     | Grams Per Kilometer | 335                                 | Derived results based on EPA GHG default factor    | --              | Greenhouse Gas Report -MIC | N/A                  |
| CO2  | 187       | Grams Per Kilometer | 335                                 | Tested result from the EDV(s) of the Engine Family | M-01            | Test #2017061601           | 06/16/2017           |
| Applicant notes for GHG data                     |           |                     |                                     |  |                 |                            |                      |
|  |           |                     |                                     |  |                 |                            |                      |

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|   |   |   |                                      |
|---|---|---|--------------------------------------|
| <b>Engine Family</b>  | KMNCX2.52DM1                                      | <b>Model Year</b>   | 2019                                 |
| <b>EPA - ONLY Permeation Emissions Control/Test Data</b>                    |   |   |                                      |
| <b>Fuel Tank Permeation Emissions Details</b>                               |   |   |                                      |
| <b>Fuel Tank #1</b>   |   |   |                                      |
| <b>Permeation Family Name</b>   | KMNCPMETALA0                                      | <b>Certification Level (g/m2/day)</b>                                       | 0.0                                  |
| <b>Emission Standard (g/m2/day)</b>   | 1.5   | <b>Family Emission Limit (g/m2/day)</b>                                     | --                                   |
| <b>Certification Method</b>   | Design technologies (per 40 CFR 1051.245 Table 1) | <b>Fuel Tank Manufacturer</b>   | Mahindra & Mahindra                  |
| <b>Applicable permeation emission certify-by-design technology category</b> | based on 40CFR1051.245, Table 1 (i)               |   |                                      |
| <b>Other</b>  |   |   |                                      |
| <b>Use Carry-over Test Data?</b>  | --  | <b>If carryover, from Permeation Family</b>                                 | --                                   |
| <b>Carryover DF</b>   | --  | <b>If carryover, from DF Permeation Family</b>                              | --                                   |
| <b>Tank Material if Other</b>   |   |   |                                      |
| <b>Least Thickness (mm)</b>   | --  | <b>Least Barrier Weight (%)</b>   | --                                   |
| <b>Least Barrier Mol (%)</b>  | --  | <b>Least Barrier Thickness (mm)</b>   | --                                   |
| <b>Production Method if Other</b>   |   |   |                                      |
| <b>Test Data (g/m2/day)</b>   | --  | <b>DF (g/m2/day)</b>  | --                                   |
| <b>EPA Certificate Number</b>   | --  |   |                                      |
| <b>Fuel Line Permeation Emissions Details</b>                               |   |   |                                      |
| <b>Fuel Line #1</b>   |   |   |                                      |
| <b>Certification Level (g/m2/day)</b>                                       | 0.0   | <b>Emission Standard (g/m2/day)</b>   | 15                                   |
| <b>Permeation Emissions Certification Method</b>                            | Design technologies (per 40 CFR 1051.245 Table 2) | <b>Fuel Line Manufacturer</b>   | NORMA Group                          |
| <b>Certified By Design LINE</b>   | --  | <b>Applicable permeation emission certify-by-design technology category</b> | based on 40CFR1051.245, Table 1 (ii) |
| <b>Other</b>  |   |   |                                      |
| <b>Use Carry-over Test Data?</b>  | --  | <b>If carryover, from Permeation Family</b>                                 | --                                   |
| <b>Carryover DF</b>   | --  | <b>If carryover, from DF Permeation Family</b>                              | --                                   |
| <b>Fuel Line Material</b>   |   |   |                                      |
| <b>Least Thickness (mm)</b>   | --  | <b>Test Results (g/m2/day)</b>  | --                                   |
| <b>DF (g/m2/day)</b>  | --  | <b>EPA Certificate Number</b>   | --                                   |
| <b>Comments</b>   |   |   |                                      |

## Certification Summary Information Report

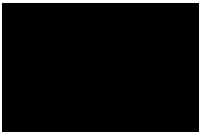

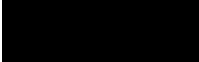

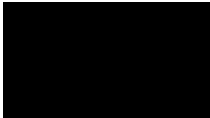

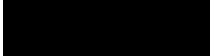

|  |              |   |  |
|--|--------------|---|--|
| <b>Engine Family</b>   | KMNCX2.52DM1 | <b>Model Year</b>                             | 2019   |
| <b>Models Covered</b>  |              |   |  |
| <b>Model #1</b>  |              |   |  |
| <b>Reference Model Number</b>                                    | 1            | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.  |
| <b>Manufacturer Model Name</b>                                   | M540         | <b>Commercial / Advertised Model Name</b>     | ROXOR  |
| <b>Engine Code</b>   | LCCR DI BSIV | <b>Vehicle Category</b>                       | All-Terrain Vehicle Category B (Meeting Only EPA Definition) |
| <b>Evaporative Family (CARB)</b>                                 | --           | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523         | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6        | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47           | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195          | <b>RPM @ Rated Torque</b>                     | 2200   |
| <b>N/V Ratio</b>   | 34.8         | <b>Curb Mass (kg)</b>                         | 1378   |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540         | <b>Loaded Vehicle Mass (kg):</b>              | 1458   |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | M5           |   |  |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> |              |   |  |
| 49-state Sales w/ 49-state Label                                 |              |   |  |
| <b>Fuel System</b>   |              |   |  |
| <b>Emission Control System (model / rating specific)</b>         | 1            | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |              | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --           |   |  |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0 |   |  |
| <b>Applicant Notes</b>   |              |   |  |
|  |              |   |  |
| <b>Model #2</b>  |              |   |  |
| <b>Reference Model Number</b>                                    | 2            | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.  |
| <b>Manufacturer Model Name</b>                                   | M540         | <b>Commercial / Advertised Model Name</b>     | ROXOR  |
| <b>Engine Code</b>   | LCCR DI BSIV | <b>Vehicle Category</b>                       | Sand Car   |
| <b>Evaporative Family (CARB)</b>                                 | --           | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523         | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6        | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47           | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195          | <b>RPM @ Rated Torque</b>                     | 2200   |
| <b>N/V Ratio</b>   | 34.8         | <b>Curb Mass (kg)</b>                         | 1378   |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540         | <b>Loaded Vehicle Mass (kg):</b>              | 1458   |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | M5           |   |  |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> |              |   |  |
| 50-state sales w/ 50-state Label                                 |              |   |  |
| <b>Fuel System</b>   |              |   |  |

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|  |                                  |   |  |
|--|----------------------------------|---|--|
| <b>Engine Family</b>   | KMNCX2.52DM1                     | <b>Model Year</b>                             | 2019   |
| <b>Emission Control System (model / rating specific)</b>         | 1                                | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |                                  | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --                               |   |  |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0                     |   |  |
| <b>Applicant Notes</b>   |                                  |   |  |
| <b>Model #3</b>  |                                  |   |  |
| <b>Reference Model Number</b>                                    | 3                                | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.  |
| <b>Manufacturer Model Name</b>                                   | M540                             | <b>Commercial / Advertised Model Name</b>     | ROXOR Dune Edition   |
| <b>Engine Code</b>   | LCCR DI BSIV                     | <b>Vehicle Category</b>                       | All-Terrain Vehicle Category B (Meeting Only EPA Definition) |
| <b>Evaporative Family (CARB)</b>                                 | --                               | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523                             | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6                            | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47                               | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195                              | <b>RPM @ Rated Torque</b>                     | 2200   |
| <b>N/V Ratio</b>   | 34.8                             | <b>Curb Mass (kg)</b>                         | 1378   |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540                             | <b>Loaded Vehicle Mass (kg):</b>              | 1458   |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | M5                               |   |  |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> | 49-state Sales w/ 49-state Label |   |  |
| <b>Fuel System</b>   |                                  |   |  |
| <b>Emission Control System (model / rating specific)</b>         | 1                                | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |                                  | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --                               |   |  |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0                     |   |  |
| <b>Applicant Notes</b>   |                                  |   |  |
| <b>Model #4</b>  |                                  |   |  |
| <b>Reference Model Number</b>                                    | 4                                | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.  |
| <b>Manufacturer Model Name</b>                                   | M540                             | <b>Commercial / Advertised Model Name</b>     | ROXOR Dune Edition   |
| <b>Engine Code</b>   | LCCR DI BSIV                     | <b>Vehicle Category</b>                       | Sand Car   |
| <b>Evaporative Family (CARB)</b>                                 | --                               | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523                             | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6                            | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47                               | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195                              | <b>RPM @ Rated Torque</b>                     | 2200   |



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|  |   |   |   |
|--|---|---|---|
| <b>Engine Family</b>   | KMNCX2.52DM1  | <b>Model Year</b>                             | 2019  |
| <b>N/V Ratio</b>   | 34.8  | <b>Curb Mass (kg)</b>                         | 1378  |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540  | <b>Loaded Vehicle Mass (kg):</b>              | 1458  |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | M5  |   |   |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> | 50-state sales w/ 50-state Label  |   |   |
| <b>Fuel System</b>   |   |   |   |
| <b>Emission Control System (model / rating specific)</b>         | 1   | <b>Projected Sales (CBI) - CA Only</b>        |    |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |    | <b>Projected Sales (CBI) - US (49-States)</b> |    |
| <b>Mfr Previously Exempted?</b>                                  | --  |   |   |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0  |   |   |
| <b>Applicant Notes</b>   |     |   |   |
| <b>Model #5</b>  |   |   |   |
| <b>Reference Model Number</b>                                    | 5   | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.   |
| <b>Manufacturer Model Name</b>                                   | M540  | <b>Commercial / Advertised Model Name</b>     | ROXOR   |
| <b>Engine Code</b>   | LCCR DI BSIV  | <b>Vehicle Category</b>                       | All-Terrain Vehicle Category B (Meeting Only EPA Definition)                          |
| <b>Evaporative Family (CARB)</b>                                 | --  | <b>Number of Evaporative Canisters (CARB)</b> | --  |
| <b>Displacement (cc)</b>   | 2523  | <b>Bore (mm)</b>                              | 88.9  |
| <b>Stroke (mm)</b>   | 101.6   | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1   |
| <b>Rated Power (kW)</b>  | 47  | <b>RPM @ Rated Power</b>                      | 3200  |
| <b>Rated Torque (nt-m)</b>                                       | 195   | <b>RPM @ Rated Torque</b>                     | 2200  |
| <b>N/V Ratio</b>   | 29.1  | <b>Curb Mass (kg)</b>                         | 1378  |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540  | <b>Loaded Vehicle Mass (kg):</b>              | 1458  |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | A6  |   |   |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> | 49-state Sales w/ 49-state Label  |   |   |
| <b>Fuel System</b>   |   |   |   |
| <b>Emission Control System (model / rating specific)</b>         | 1   | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |  | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --  |   |   |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0  |   |   |
| <b>Applicant Notes</b>   |  |   |   |
| <b>Model #6</b>  |   |   |   |
| <b>Reference Model Number</b>                                    | 6   | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.   |
| <b>Manufacturer Model Name</b>                                   | M540  | <b>Commercial / Advertised Model Name</b>     | ROXOR   |

## Certification Summary Information Report

|  |                                  |   |  |
|--|----------------------------------|---|--|
| <b>Engine Family</b>   | KMNCX2.52DM1                     | <b>Model Year</b>                             | 2019   |
| <b>Engine Code</b>   | LCCR DI BSIV                     | <b>Vehicle Category</b>                       | Sand Car   |
| <b>Evaporative Family (CARB)</b>                                 | --                               | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523                             | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6                            | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47                               | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195                              | <b>RPM @ Rated Torque</b>                     | 2200   |
| <b>N/V Ratio</b>   | 29.1                             | <b>Curb Mass (kg)</b>                         | 1378   |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540                             | <b>Loaded Vehicle Mass (kg):</b>              | 1458   |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | A6                               |   |  |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> | 50-state sales w/ 50-state Label |   |  |
| <b>Fuel System</b>   |                                  |   |  |
| <b>Emission Control System (model / rating specific)</b>         | 1                                | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |                                  | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --                               |   |  |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0                     |   |  |
| <b>Applicant Notes</b>   |                                  |   |  |
| <b>Model #7</b>  |                                  |   |  |
| <b>Reference Model Number</b>                                    | 7                                | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.  |
| <b>Manufacturer Model Name</b>                                   | M540                             | <b>Commercial / Advertised Model Name</b>     | ROXOR Dune Edition   |
| <b>Engine Code</b>   | LCCR DI BSIV                     | <b>Vehicle Category</b>                       | All-Terrain Vehicle Category B (Meeting Only EPA Definition) |
| <b>Evaporative Family (CARB)</b>                                 | --                               | <b>Number of Evaporative Canisters (CARB)</b> | --   |
| <b>Displacement (cc)</b>   | 2523                             | <b>Bore (mm)</b>                              | 88.9   |
| <b>Stroke (mm)</b>   | 101.6                            | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1  |
| <b>Rated Power (kW)</b>  | 47                               | <b>RPM @ Rated Power</b>                      | 3200   |
| <b>Rated Torque (nt-m)</b>                                       | 195                              | <b>RPM @ Rated Torque</b>                     | 2200   |
| <b>N/V Ratio</b>   | 29.1                             | <b>Curb Mass (kg)</b>                         | 1378   |
| <b>Equivalent Inertial Mass (kg)</b>                             | 1540                             | <b>Loaded Vehicle Mass (kg):</b>              | 1458   |
| <b>Transmission (e.g. M5, A3, etc.)</b>                          | A6                               |   |  |
| <b>Vehicle Emission Compliance Information (VECI) Label Type</b> | 49-state Sales w/ 49-state Label |   |  |
| <b>Fuel System</b>   |                                  |   |  |
| <b>Emission Control System (model / rating specific)</b>         | 1                                | <b>Projected Sales (CBI) - CA Only</b>        |  |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b>      |                                  | <b>Projected Sales (CBI) - US (49-States)</b> |  |
| <b>Mfr Previously Exempted?</b>                                  | --                               |   |  |
| <b>Permeation Family Name (s)</b>                                | KMNCPMETALA0                     |   |  |

## Certification Summary Information Report

|   |                                  |   |                    |
|---|----------------------------------|---|--------------------|
| <b>Engine Family</b>  | KMNCX2.52DM1                     | <b>Model Year</b>                             | 2019               |
| <b>Applicant Notes</b><br>[REDACTED]                        |                                  |   |                    |
| <b>Model #8</b>   |                                  |   |                    |
| <b>Reference Model Number</b>                               | 8                                | <b>Final Assembly Manufacturer Name</b>       | MNATC, Inc.        |
| <b>Manufacturer Model Name</b>                              | M540                             | <b>Commercial / Advertised Model Name</b>     | ROXOR Dune Edition |
| <b>Engine Code</b>  | LCCR DI BSIV                     | <b>Vehicle Category</b>                       | Sand Car           |
| <b>Evaporative Family (CARB)</b>                            | --                               | <b>Number of Evaporative Canisters (CARB)</b> | --                 |
| <b>Displacement (cc)</b>                                    | 2523                             | <b>Bore (mm)</b>                              | 88.9               |
| <b>Stroke (mm)</b>  | 101.6                            | <b>Basic Ignition Timing (degrees, BTDC)</b>  | 1                  |
| <b>Rated Power (kW)</b>                                     | 47                               | <b>RPM @ Rated Power</b>                      | 3200               |
| <b>Rated Torque (nt-m)</b>                                  | 195                              | <b>RPM @ Rated Torque</b>                     | 2200               |
| <b>N/V Ratio</b>  | 29.1                             | <b>Curb Mass (kg)</b>                         | 1378               |
| <b>Equivalent Inertial Mass (kg)</b>                        | 1540                             | <b>Loaded Vehicle Mass (kg):</b>              | 1458               |
| <b>Transmission (e.g. M5, A3, etc.)</b>                     | A6                               |   |                    |
| <b>Vehicle Emission Compliance Information</b>              |                                  |   |                    |
| <b>(VECI) Label Type</b>                                    | 50-state sales w/ 50-state Label |   |                    |
| <b>Fuel System</b>  |                                  |   |                    |
| <b>Emission Control System (model / rating specific)</b>    | 1                                | <b>Projected Sales (CBI) - CA Only</b>        | [REDACTED]         |
| <b>Projected Sales (CBI) - US Total (includes CA Sales)</b> | [REDACTED]                       | <b>Projected Sales (CBI) - US (49-States)</b> | [REDACTED]         |
| <b>Mfr Previously Exempted?</b>                             | --                               |   |                    |
| <b>Permeation Family Name (s)</b>                           | KMNCPPMETALA0                    |   |                    |
| <b>Applicant Notes</b><br>[REDACTED]                        |                                  |   |                    |